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Attorney Docket No.: 15966-581 CIP



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS : Quinn, et al.
SERIAL NUMBER : 09/996,015
FILING DATE : November 28, 2001
FOR : Aortic Carboxypeptidase-Like Proteins and Nucleic Acids Encoding Same

EXAMINER : Not Yet Assigned
ART UNIT : 1652

BOX IDS
Commissioner for Patents
Washington, D.C. 20231



30623

PATENT TRADEMARK OFFICE

TRANSMITTAL LETTER

Transmitted herewith for filing in the present application are the following documents:

1. Information Disclosure Statement (2 pages), in duplicate;
2. Modified Form 1449/PTO (2 pages), in duplicate;
3. Copies of Cited References B1-B4 and C29-C30; and
4. Return Postcard

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 542-6000, Boston, Massachusetts.

The Commissioner is authorized to charge any fees that may be due, or to credit any overpayment, to the undersigned's account, Deposit Account No. 50-0311 Ref. No. 15966-581 CIP. A duplicate copy of this transmittal letter is enclosed herewith.

Respectfully submitted,

Ivor R. Elrifi, Reg. No. 39,529
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Dated: May 22, 2002

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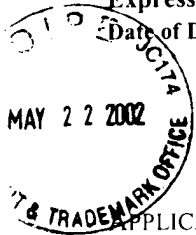
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INFORMATION DISCLOSURE STATEMENT

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Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, ~~TECH CENTER 1600/2900~~ hereby make of record the documents listed on the attached modified Form PTO-1449, as well as copies of the listed documents.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits in the above-identified case. Accordingly, no fee or certification is believed required.

A copy of each of the references in the above-identified application is enclosed unless otherwise indicated on the attached modified Form PTO-1449. It is respectfully requested that the Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims, and signs the enclosed form PTO-1449 to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application.

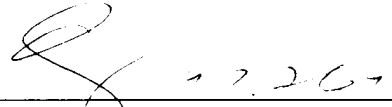
By submitting this Information Disclosure Statement, the Applicants make no representation that: (1) a search has been performed, of the extent of any search performed, or that more relevant information does not exist; (2) the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b); and (3) the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

APPLICANTS: Quinn, et al.
U.S.S.N.: 09/996,015

Notwithstanding any statements by the Applicants, the Examiner is urged to form his/her own conclusion regarding the relevance of the cited information. An early and favorable action is hereby requested.

Please charge any additional fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311, Reference No. 15966-581 CIP.

Respectfully submitted,


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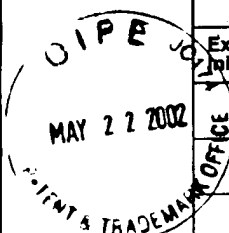
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| Modified Form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) | Application Number | 09/996,015 |
| | Filing Date | 11/28/2001 |
| | First Named Inventor | Quinn |
| | Group Art Unit | 1652 |
| | Examiner Name | Not Yet Assigned |
| | Attorney Docket Number | 15966-581 CIP |

| U.S. PATENT DOCUMENTS | | | | | | | |
|-----------------------|----------|--------------------------|------------|-------------------------------------|-------|-----------|----------------------------|
| Exam Initials | Cite No. | U.S. Patent Document No. | Issue Date | Name of Patentee(s) or Applicant(s) | Class | Sub Class | Filing Date If Appropriate |
| | | | | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | |
|--------------------------|----------|--------------------------------|-----------|-------------------------------------|---------------------|-----------------|----|
| Exam Initials | Cite No. | Foreign Patent Document Office | Number | Name of Patentee(s) or Applicant(s) | Date of Publication | Translation Yes | No |
| | B1 | WO | 98/39446 | Human Genome Sciences, Inc. | 09/11/1998 | | |
| | B2 | WO | 00/58473 | CuraGen, Corp. | 10/05/2000 | | |
| | B3 | WO | 01/10903 | Incyte Genomics, Inc. | 02/15/2001 | | |
| | B4 | EP | 1 067 182 | Helix Res. Inst. | 01/10/2001 | | |

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS | | | | | | | |
|---|----------|--|--|--|--|--|--|
| Exam Initials | Cite No. | Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc. | | | | | |
| | C1* | Brownstein, , et al. (1980). "Synthesis, transport, and release of posterior pituitary hormones." <i>Science</i> 207(4429): 373-8. | | | | | |
| | C2* | DeCruz, et al. (1996). "The basis for somatic gene therapy of cancer." <i>J Exp Ther Oncol</i> 1(2): 73-83. ABSTRACT ONLY | | | | | |
| | C3* | Fricker and Leiter (1999). "Peptides, enzymes and obesity: new insights from a 'dead' enzyme." <i>Trends Biochem Sci</i> 24(10): 390-3. | | | | | |
| | C4* | EMBL Database Accession Number: Q61281 (11/01/96). | | | | | |
| | C5* | EMBL Database Accession Number: Q14113 (11/01/96). | | | | | |
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| | C7* | Layne, et al. (1998). "Aortic carboxypeptidase-like protein, a novel protein with discoidin and carboxypeptidase-like domains, is up-regulated during vascular smooth muscle cell differentiation." <i>J Biol Chem</i> 273(25): 15654-60. | | | | | |
| | C8* | EMBL Database Accession Number: AF077738 (03/11/99). | | | | | |
| | C9* | GenBank Accession Number: Q9Z100 (05/01/99). | | | | | |
| | C10* | Lei, et al. (1999). "Identification of mouse CPX-1, a novel member of the metallocarboxypeptidase gene family with highest similarity to CPX-2." <i>DNA Cell Biol</i> 18(2): 175-85. | | | | | |
| | C11* | SWISS-PROT Database Accession Number: ALO35460 (10/01/00). | | | | | |
| | C12* | McGwire, et al. (1997). "Identification of a membrane-bound carboxypeptidase as the mammalian homolog of duck gp180, a hepatitis B virus-binding protein." <i>Life Sci</i> 60(10): 715-24. | | | | | |
| | C13* | Muise and Ro (1999). "Enzymic characterization of a novel member of the regulatory B-like carboxypeptidase with transcriptional repression function: stimulation of enzymic activity by its target DNA." <i>Biochem J</i> 343 Pt 2: 341-5. | | | | | |
| | C14* | Nagg rt, t al. (1995). "Hyperproinsulinaemia in obese fat/fat mice associated with a | | | | | |



| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS | | |
|---|----------|---|
| Exam Initials | Cite No. | Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc. |
| | | carboxypeptidase E mutation which reduces enzyme activity." <i>Nat Genet</i> 10(2): 135-42. ABSTRACT ONLY |
| | C15* | Ohno, et al. (1996). "A cDNA cloning of human AEBP1 from primary cultured osteoblasts and its expression in a differentiating osteoblastic cell line." <i>Biochem Biophys Res Commun</i> 228(2): 411-4. |
| | C16* | Ollas, et al. (1996). "Heterologous expression of human vasopressin-neurophysin precursors in a pituitary cell line: defective transport of a mutant protein from patients with familial diabetes insipidus." <i>DNA Cell Biol</i> 15(11): 929-35. |
| | C17* | Rehli, et al. (1995). "Carboxypeptidase M is identical to the MAX.1 antigen and its expression is associated with monocyte to macrophage differentiation." <i>J Biol Chem</i> 270(26): 15644-9. |
| | C18* | Repaske and Browning (1994). "A de novo mutation in the coding sequence for neurophysin-II (Pro24- >Leu) is associated with onset and transmission of autosomal dominant neurohypophyseal diabetes insipidus." <i>J Clin Endocrinol Metab</i> 79(2): 421-7. |
| | C19* | Sachs, et al. (1969). "Biosynthesis and release of vasopressin and neurophysin." <i>Recent Prog Horm Res</i> 25: 447-91. |
| | C20* | Saez, et al. (1997). "Inducible gene expression in mammalian cells and transgenic mice." <i>Curr Opin Biotechnol</i> 8(5): 608-16. |
| | C21* | Sawada and Kamataki (1998). "Genetically engineered cells stably expressing cytochrome P450 and their application to mutagen assays." <i>Mutat Res</i> 411(1): 19-43. |
| | C22* | Schmale, et al. (1984). "The mutant vasopressin gene from diabetes insipidus (Brattleboro) rats is transcribed but the message is not efficiently translated." <i>Embo J</i> 3(13): 3289-93. |
| | C23* | Seed (1987). "An LFA-3 cDNA encodes a phospholipid-linked membrane protein homologous to its receptor CD2." <i>Nature</i> 329(6142): 840-2. ABSTRACT ONLY |
| | C24* | Song and Fricker (1997). "Cloning and expression of human carboxypeptidase Z, a novel metallocarboxypeptidase." <i>J Biol Chem</i> 272(16): 10543-50. |
| | C25* | Tan, et al. (1989). "Protamine inhibits plasma carboxypeptidase N, the inactivator of anaphylatoxins and kinins." <i>Anesthesiology</i> 70(2): 267-75. |
| | C26* | Vogel (1999). "Discoidin domain receptors: structural relations and functional implications." <i>Faseb J</i> 13(Suppl): S77-82. |
| | C27* | EMBL Database Accession Number: O54860 (06/01/98). |
| | C28* | Xin, et al. (1998). "Identification of mouse CPX-2, a novel member of the metallocarboxypeptidase gene family: cDNA cloning, mRNA distribution, and protein expression and characterization." <i>DNA Cell Biol</i> 17(10): 897-909. |
| | C29 | EMBL Database Accession Number: Q9NUB5 (10/01/00). |
| | C30 | International Search Report for PCT/US00/28364. Mailed on 7/26/2001. |

* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. **09/641,741**, filed **August 18, 2000**, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

| | | | |
|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
|--------------------|--|-----------------|--|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.

Include copy of this form with next communication to applicant.

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